

HH PPS Pricer Design (as of 5/16/00)

Input Data File:

The input record layout is attached. The file will be 450 bytes in length.

From Standard System: The following data elements will be passed to Pricer from the claim.

HHA-NPI	Provider Identifier (future claim item)
HHA-HIC	Health Insurance Claim Number
HHA-PROV-NO	Six-digit OSCAR provider number
HHA-TOB	Three-digit Type of Bill Code
HHA-SERV-FROM-DATE	From Date of Claim
HHA-SERV-THRU-DATE	Through Date of Claim
HHA-ADMIT-DATE	Admission Date of Claim
HHA-HRG-INPUT-CODE	Up to 6 instances.* First 6 HRGs (HIPPS codes) that appear on the claim

Calculated by Standard System: The following data will be calculated by the SS from the claim and passed to Pricer.

HHA-HRG-NO-OF-DAYS	Up to 6 instances.* The number of days of service applied to each HRG [span of days between the first service date and the last service date under each HRG]
HHA-MED-REVIEW-INDICATOR	Up to 6 instances. A Y/N indicator. An instance of this indicator will correspond with each HRG passed to Pricer. A Y indicator will be passed if the panel code field shows a HIPPS code and the line item pricing indicator on the claim shows the HIPPS code was changed in MR. A N indicator will be passed in all other cases.
HHA-INIT-PYMNT-INDICATOR	<p>A one position indicator to show the percentage payment to made on initial claims to a specific provider. This value will be set by the intermediary in field 19 (Federal PPS Blend Indicator) of the provider specific file*** and copied by the Standard System into the Pricer input record. Valid values for 10/2000 will be:</p> <p>0 = make normal initial payment 1 = pay 0%</p> <p>Additional values may be added in subsequent years of HH PPS, to allow variable rates of payment.</p>

HHA-REVENUE-DATA

Always six instances, representing each of the six HH disciplines. (H-HHA-REV-CODE will show rev. codes 42x, 43x, 44x, 55x, 56x, and 57x in all cases. The revenue codes must be passed sorted in ascending order.) A count of occurrences** for each revenue code will be passed as HHA-COVERED-VISITS-QTY. If no occurrences, pass zeroes.

HHA-PEP-INDICATOR

A Y/N indicator. A Y indicator will be passed if the patient status on the claim indicates a transfer (patient status 06) or a discharge w/goals met and return to the same agency (new patient status TBD). A N indicator will be passed in all other cases.

HHA-PEP-DAYS

The total number of days in a PEP episode period, calculated from the earliest line item date of service on the claim through the latest line item date of service. In typical PEPs, this number will match the HRG-NO-OF-DAYS. But in cases of SCICs within PEPs, the counts must be distinct.

* Pricer will only be able to price claims with 6 or fewer HRGs. RHHs will establish a Medical Policy Parameter to suspend claims with more than 6 0023 lines for Medical Review. A special workaround process will be developed for the rare case where the seventh change is justified.

** In the course of a future annual update, HCFA may require increments, rather than visits, to be counted. In that case, a number calculated from the units field will replace the number of occurrences of the revenue code.

*** Section 3850 of the MIM must be revised to require intermediaries to maintain field 19 in addition to other currently required elements.

Decision Logic for Pricer:

If “HHA-TOB” = 322 or 332:

Find weight for “HHA-HRG-INPUT-CODE” from weight table. Multiply weight times Federal episode rate (\$2115.29 in final rule), the product is the Federal adjusted rate. This rate must be wage-index adjusted according to labor and non-labor portions of the payment established by HCFA. Multiply the Federal adjusted rate by .77668 to determine the labor portion. Multiply the labor portion by the wage index corresponding to “HHA-MSA1” (Hospital wage index will be used). Multiply the Federal adjusted rate by .22332 to determine non-Labor portion. Add labor and non-labor portions. The sum is the wage index adjusted payment for this HRG.

If “HHA-INIT-PYMNT-INDICATOR” = 0, perform the following:

If “HHA-SERV-FROM-DATE” = “HHA-ADMIT-DATE”: multiply payment by .6

(Note: SS editing to prevent providers from matching these elements on all claims has been determined to be impractical at the implementation of HH PPS. Provider abuse of this will be determined by data analysis and any education or enforcement done post-pay.)

Return resulting amount in “HHA-TOTAL-PAYMENT” field with return code 05.

If “HHA-SERV-FROM-DATE” does not = “HHA-ADMIT-DATE”: multiply payment by .5

Return resulting amount in “HHA-TOTAL-PAYMENT” field with return code 04.

If “HHA-INIT-PYMNT-INDICATOR” = 1, perform the following:

Multiply payment by .00.

Return the resulting amount in “HHA-HRG-PAY” and “HHA-TOTAL-PAYMENT” fields with return code 03.

If “HHA-TOB” = 329, 339, 327, 337, 32G, 33G, 32I, 33I, 32J, 33J, 32M, or 33M:

Perform the following calculations in the numbered order:

1) Low Utilization Payment Adjustment (LUPA) calculation.

If “HHA-REVENUE-SUM1-6-QTY-ALL” (a total of the 6 revenue code quantities, representing the total number of visits on the claim) is less than 5:

Read national standard per visit rates from revenue code table for each of the six “HHA-REVENUE-QTY-COV-VISITS” fields. Multiply each quantity by the corresponding rate. Wage index adjust and sum the six products. The result is the total payment for the episode.

Return this amount in “HHA-TOTAL-PAYMENT” field with return code 06. No further calculations are required.

If “HHA-REVENUE-SUM1-6-QTY-ALL” is greater than or equal to 5: Proceed to therapy threshold determination.

2) Therapy threshold determination.

If “HHA-REVENUE-SUM1-3-QTY-THR” (a total of the quantities associated with therapy revenue codes, 42x, 43x, 44x, which will be passed from the SS sorted in this order) is less than 10: Read table of HRG codes.

If “HHA-MED-REVIEW-INDICATOR” is a Y for any HRG, do not perform the following determination for that HRG. Proceed to the next HRG occurrence.

If “HHA-MED-REVIEW-INDICATOR” is an N for any HRG, perform the following determination for that HRG:

If code in first HRG column matches the code in the second HRG column, use the weight for the HRG in the first HRG column for further calculations involving that HRG. Copy that code to the “HHA-HRG-OUTPUT-CODE” field.

If code in first HRG column does not match the code in the second HRG column, use the weight for the HRG in the second HRG column (which will always be a lower weight) for further calculations involving that HRG. Place the new code in the “HHA-HRG-OUTPUT-CODE” field.

If “HHA-REVENUE-SUM1-3-QTY-THR” is greater than or equal to 10: Copy all “HHA-HRG-INPUT-CODE” entries to the “HHA-HRG-OUTPUT-CODE” fields. Proceed to HRG payment calculations.

3) HRG payment calculations.

If “HHA-HRG-CODE” occurrences are less than 2, and “HHA-PEP-INDICATOR” is an N:

Find weight for “HHA-HRG-CODE” from weight table. Multiply weight times Federal episode rate (\$2115.29 in final rule), this is the Federal Adjusted Rate. Multiply this adjusted rate by .77668 to determine labor portion. Multiply labor portion by wage index corresponding to “HHA-MSA1” (Hospital wage index will be used). Multiply adjusted rate by .22332 to determine non-Labor portion. Add labor and non-labor portions. This is the wage index adjusted payment for this HRG.

Proceed to 4) outlier calculation.

If “HHA-HRG-CODE” occurrences are less than 2, and “HHA-PEP-INDICATOR” is a Y:

Perform calculation of wage index adjusted payment for the HRG, as above. Determine fraction payable on this PEP by dividing “HHA-HRG-NO-OF-DAYS” amount by 60. Multiply wage index adjusted payment by this fraction. The result is the PEP payment due on the claim.

Proceed to 4) outlier calculation.

If “HHA-HRG-CODE” occurrences are greater than or equal to 2, and “HHA-PEP-INDICATOR” is an N:

Multiply weight for “HHA-HRG-CODE -1” by value in “HHA-HRG-NO-OF-DAYS-1” over sixty. Multiply resulting weight by Federal episode rate. Repeat this for up to six occurrences of “HHA-HRG-CODE.” These amounts will returned separately in the “HHA-HRG-PAY” fields, so that the Standard System can associate them to the claim 0023 lines and pass the amounts to the remittance advice, making the payment more easily understood by the provider. Therefore each amount must be wage index adjusted separately.

Sum all resulting dollar amounts. This is total HRG payment for the episode.

Proceed to 4) outlier calculation.

If “HHA-HRG-CODE” occurrences are greater than or equal to 2, and “HHA-PEP-INDICATOR” is a Y:

Determine the wage index adjusted payment for each HRG. Multiply this payment by the quantity in the “HHA-PEP -DAYS” field divided by 60. Multiply the result by the the quantity in the “HHA-HRG-NO-OF-DAYS” field divided by the quantity in the “HHA-PEP-DAYS” field. Repeat this for up to six occurrences of “HHA-HRG-CODE.” These amounts will returned separately in the “HHA-HRG-PAY” fields.

Sum all resulting dollar amounts. This is total HRG payment for the episode.

Proceed to 4) outlier calculation.

4) Outlier calculation:

Wage index adjust the outlier threshold amount (\$2284.51 in final rule), for labor and non-labor portions. Add the resulting adjusted threshold amount to the total dollar amount resulting from all HRG payment calculations. This is value A.

Read national standard per visit rates from revenue code table for each of the six “HHA-REVENUE-QTY-COV-VISITS” fields. Multiply each quantity by the corresponding rate. Sum the six results and wage index adjust this sum as described above, with labor and non-labor portions. The result is the adjusted cost for the episode, which is value B.

Subtract value A from value B.

If result is greater than \$0.00:

Calculate .80 (this percentage may change again in the final rule) times the result.

Return this amount in “HHA-OUTLIER-PAYMENT” field. Add this amount to the total dollar amount resulting from all HRG payment calculations. This sum is the total payment for the episode.

Return the outlier and HRG payment amount(s), with return code 01.

If result is less than or equal to \$0.00:

The total dollar amount resulting from all HRG payment calculations is the total payment for the episode.

Return zeroes in the “HHA-OUTLIER-PAYMENT” field. Return the HRG payment amount(s), with return code 00.

Pricer Outputs

HHA-HRG-OUTPUT-CODE	Occurs up to 6 times. The actual code that Pricer used to price the claim, after making therapy threshold determination
HHA-HRG-WGTS	The weight that corresponds to the HRG used to price the claim. This may be added to the paid claim record for use in audit.
HHA-HRG-PAY	Wage index adjusted payment made on each HRG
HHA-TOTAL-PAYMENT	Sum of all payments made on the claim (payments for each HRG plus outlier amount)
HHA-OUTLIER-PAYMENT	Applicable Outlier Payment
HHA-PAY-RTC	A set of two-digit return codes representing information on the type of payment being made or error messages describing reasons payment could not be calculated. Codes/needs determined so far: 00 = Final payment, where no outlier applies 01 = Final payment where outlier applies 03 = Initial percentage payment, 0% 04 = Initial percentage payment, 50% 05 = Initial percentage payment, 60% 06 = LUPA payment only 10 = Invalid TOB 15 = Invalid PEP Days for shortened episode

- 20 = PEP indicator invalid
- 25 = Med review indicator invalid
- 30 = Invalid MSA code
- 35 = Invalid Initial Pymnt Indicator
- 40 = Dates < Oct 1, 2000 or invalid
- 70 = Invalid HRG code
- 75 = No HRG present in 1st occurrence
- 80 = Invalid revenue code
- 85 = No revenue code present on 3x9 or adjustment TOB

Inputs in Annual Updates from HCFA:

Federal Episode Rate Amount	\$2,115.30 in final rule
Outlier Threshold Amount	\$2,390.29 in final rule, wage index adjusted (1.13 times the Federal episode rate amount)
Initial Claim Payment Percentage	60% for the first initial claim in stand alone episodes or first claim of multiple episodes of continuous care (i.e. claims where from and admission date match), then 50% for all initial claims thereafter (all other claims)
Outlier Loss Sharing Ratio (Percentage)	.80 loss sharing ratio in final rule
Labor and Non-Labor Percentages	.77668 and .22332 in final rule
Hospital Wage Index Table	MSA table published in the final rule
HRG(HIPPS) Code and Weight Table	Reformatted table from final rule of all HRGs, their weights and HRG low-therapy value
Revenue Code Rate Table	Table of home health discipline revenue codes and associated national standard pervisit rates from the final rule

INPUT RECORD TO PRICER FROM STANDARD SYSTEM—3x2 TOB

Elements completed on this record are passed to Pricer from the SS on each initial RAP. Footnoted elements are calculated items, with explanations below. All other items are moved to the Pricer input record as is from the claim record.

NPI	_____	PIC X(10)
HIC	<u>213849089A</u>	PIC X(12)
PROV NO	<u>475516</u>	PIC X(06)
TYPE OF BILL	<u>322</u>	PIC XXX
PEP INDICATOR	_____	PIC X
PEP DAYS	_____	PIC 9(03)
INIT PYMNT INDICATOR	<u>0</u>	PIC X
FILLER	_____	PIC X(07)
MSA	<u>9945.00</u>	PIC PIC 9(07)V9(02)
FILLER XXX		
MSA XXXX		
FILLER XX		
SERVICE FROM DATE	<u>20001001</u>	CCYYMMDD
SERVICE THRU DATE	<u>20001001</u>	CCYYMMDD
ADMIT DATE	<u>20001001</u>	CCYYMMDD
HRG DATA OCCURS 6 TIMES		
HRG INPUT CODE	<u>HBFM4</u>	PIC X(05)
HRG OUTPUT CODE	_____	PIC X (05)
NO-OF-DAYS	<u>60¹</u>	PIC 9(03)
MED-REVIEW-IND	<u>N²</u>	PIC X
WGTS	_____	PIC 9(06)
HRG PAY	_____	PIC 9(07)V9(02)
REVENUE DATA OCCURS 6 TIMES		
REVENUE CODE	_____	PIC X(04)
QTY-COV-VISITS	_____	PIC 9(03)
REVENUE DOLLAR RATE	_____	PIC 9(07)V9(02)
REVENUE COST	_____	PIC 9(07)V9(02)
RETURN CODE		
REVENUE QTY SUM 1-3-THR	_____	PIC 9(05)
REVENUE QTY SUM 1-6-ALL	_____	PIC 9(05)
OUTLIER PAYMENT	_____	PIC 9(07)V9(02)
TOTAL PAYMENT	_____	PIC 9(02)V9(02)
FILLER	_____	PIC X(20)

¹ HRG number of days is calculated by determining the number of days between the claim from date and the last service date provided under an HRG for the first occurrence, and by determining the inclusive span of days between the first and last service date for all subsequent occurrences. Initial RAPs will plug 60 days, as this count is not yet available.

² Med Review indicator is set to a Y if a HIPPS code is in the panel field and the line item pricing indicator on a 0023 line indicates the line was re-coded by MR.

INPUT RECORD TO PRICER FROM STANDARD SYSTEM—3x9 TOB

Elements completed on this record are passed to Pricer from the SS on each final claim. Footnoted elements are calculated items, with explanations below. All other items are moved to the Pricer input record as is from the claim record.

NPI		PIC X(10)
HIC	<u>213849089A</u>	PIC X(12)
PROV NO	<u>475516</u>	PIC X(06)
TYPE OF BILL	<u>329</u>	PIC XXX
PEP INDICATOR	<u>Y³</u>	PIC X
PEP DAYS	<u>25</u>	PIC 9(03)
INIT PYMNT INDICATOR		PIC X
FILLER		PIC X(07)
MSA	<u>9945.00</u>	PIC PIC 9(07)V9(02)
FILLER XXX		
MSA XXXX		
FILLER XX		
SERVICE FROM DATE	<u>20001001</u>	CCYYMMDD
SERVICE THRU DATE	<u>20001030</u>	CCYYMMDD
ADMIT DATE	<u>20001001</u>	CCYYMMDD
HRG DATA OCCURS 6 TIMES		
HRG INPUT CODE	<u>HBFM4</u>	PIC X(05)
HRG OUTPUT CODE		PIC X (05)
NO-OF-DAYS	<u>25⁴</u>	PIC 9(03)
MED-REVIEW-IND	<u>N⁵</u>	PIC X
WGTS		PIC 9(06)
HRG PAY		PIC 9(07)V9(02)
REVENUE DATA OCCURS 6 TIMES		
REVENUE CODE	<u>0420</u>	PIC X(04)
QTY-COV-VISITS	<u>3</u>	PIC 9(03)
REVENUE DOLLAR RATE		PIC 9(07)V9(02)
REVENUE COST		PIC 9(07)V9(02)
RETURN CODE		PIC 99
REVENUE QTY SUM 1-3-THR		PIC 9(05)
REVENUE QTY SUM 1-6-ALL		PIC 9(05)

³ PEP indicator is set to a Y if patient status on the claim record is 06 or new patient status for discharge and readmission within 60 days. PEP days calculated by determining the number of days between the claim from date and the last service date provided in the episode.

⁴ HRG number of days is calculated by determining the number of days between the claim from date and the last service date provided under an HRG for the first occurrence, and by determining the inclusive span of days between the first and last service date for all subsequent occurrences.

⁵ Med Review indicator is set to a Y if a HIPPS code is in the panel field and the line item pricing indicator on a 0023 line indicates the line was re-coded by MR.

OUTLIER PAYMENT
TOTAL PAYMENT
FILLER

PIC 9(07)V9(02)
PIC 9(02)V9(02)
PIC X(20)

OUTPUT RECORD FROM PRICER TO STANDARD SYSTEM—3x2 TOB

Elements completed on this record are passed back from Pricer to the SS after an initial RAP is priced. **This display shows only the elements that will generated by the Pricer. Input items will also be returned, but are not displayed here.**

NPI	_____	PIC X(10)
HIC	_____	PIC X(12)
PROV NO	_____	PIC X(06)
TYPE OF BILL	_____	PIC XXX
PEP INDICATOR	_____	PIC X
PEP DAYS	_____	PIC 9(03)
INIT PYMNT INDICATOR	_____	PIC X
FILLER		PIC X(07)
MSA	_____	PIC PIC 9(07)V9(02)
FILLER XXX		
MSA XXXX		
FILLER XX		
SERVICE FROM DATE	_____	CCYYMMDD
SERVICE THRU DATE	_____	CCYYMMDD
ADMIT DATE	_____	CCYYMMDD
HRG DATA OCCURS 6 TIMES		
HRG INPUT CODE	_____	PIC X(05)
HRG OUTPUT CODE	<u>HBFM4⁶</u>	PIC X (05)
NO-OF-DAYS	_____	PIC 9(03)
MED-REVIEW-IND	_____	PIC X
WGTS	<u>018215⁷</u>	PIC 9(06)
HRG PAY	<u>0002256.09</u>	PIC 9(07)V9(02)
REVENUE DATA OCCURS 6 TIMES		
REVENUE CODE	_____	PIC X(04)
QTY-COV-VISITS	_____	PIC 9(03)
REVENUE DOLLAR RATE	_____	PIC 9(07)V9(02)
REVENUE COST	_____	PIC 9(07)V9(02)
RETURN CODE	<u>04</u>	PIC 99
REVENUE QTY SUM 1-3-THR	_____	PIC 9(05)
REVENUE QTY SUM 1-6-ALL	_____	PIC 9(05)
OUTLIER PAYMENT	_____	PIC 9(07)V9(02)
TOTAL PAYMENT	<u>0001570.35</u>	PIC 9(02)V9(02)
FILLER		PIC X(20)

⁶ If the claim is downcoded because it does not meet the therapy threshold, this code will be different from the input code. In all other circumstances, the input code will be copied to this field.

⁷ The weight used in the calculation will be returned and placed on a separate page of the claim record, but will not be used for any further calculation in the SS.

OUTPUT RECORD FROM PRICER TO STANDARD SYSTEM—3x9 TOB

Elements completed on this record are passed back from Pricer to the SS after a final claim is priced. **This display shows only the elements that will generated by the Pricer. Input items will also be returned, but are not displayed here.**

NPI	_____	PIC X(10)
HIC	_____	PIC X(12)
PROV NO	_____	PIC X(06)
TYPE OF BILL	_____	PIC XXX
PEP INDICATOR	_____	PIC X
PEP DAYS	_____	PIC 9(03)
INIT PYMNT INDICATOR	_____	PIC X
FILLER		PIC X(07)
MSA	_____	PIC PIC 9(07)V9(02)
FILLER XXX		
MSA XXXX		
FILLER XX		
SERVICE FROM DATE	_____	CCYYMMDD
SERVICE THRU DATE	_____	CCYYMMDD
ADMIT DATE	_____	CCYYMMDD
HRG DATA OCCURS 6 TIMES		
HRG INPUT CODE	_____	PIC X(05)
HRG OUTPUT CODE	<u>HBFK4⁸</u>	PIC X (05)
NO-OF-DAYS	_____	PIC 9(03)
MED-REVIEW-IND	_____	PIC X
WGTS	<u>007709⁹</u>	PIC 9(06)
HRG PAY	<u>0001570.35</u>	PIC 9(07)V9(02)
REVENUE DATA OCCURS 6 TIMES		
REVENUE CODE	_____	PIC X(04)
QTY-COV-VISITS	_____	PIC 9(03)
REVENUE DOLLAR RATE	<u>0000083.39¹⁰</u>	PIC 9(07)V9(02)
REVENUE COST	<u>000250.17</u>	PIC 9(07)V9(02)
RETURN CODE	<u>00</u>	PIC 99
REVENUE QTY SUM 1-3-THR	<u>00003</u>	PIC 9(05)
REVENUE QTY SUM 1-6-ALL	<u>00020</u>	PIC 9(05)
OUTLIER PAYMENT	<u>0000000.00</u>	PIC 9(07)V9(02)

⁸ If the claim is downcoded because it does not meet the therapy threshold, this code will be different from the input code. In all other circumstances, the input code will be copied to this field.

⁹ The weight used in the calculation will be returned and placed on a separate page of the claim record, but will not be used for any further calculation in the SS.

¹⁰ The rate used in the calculation will be returned and placed on a separate page of the claim record, but will not be used for any further calculation in the SS.

TOTAL PAYMENT
FILLER

0001570.35

PIC 9(02)V9(02)
PIC X(20)

